CHARGE NUMBER : 1307

PROJECT TITLE : Reconstituted Tobacco Development

PERIOD COVERED: February 1-28, 1983

PROJECT LEADER: G. Gellatly

I. APPLICATION OF CLASS TOBACCOS TO TOBACCO MATERIALS

A. Objective

To define processes for the application of class tobaccos to tobacco materials and to define the physical and subjective character of the resulting products.

B. Status

1. The pilot plant products required to evaluate the effect of RL coating process variables on RL filler performance have been produced.

2. CT/IS product has been found by B&H Canada to be insignificantly different subjectively and in the level of fines generation from control product. An econmoic evaluation of the CT/IS process is being made by B&H Canada for their application. They are seeking a vendor to grind their CT for further CT/IS trials prior to Manufacturing Engineering recommending a grinder for their installation.

3. Initial trials for CT application to bright and Oriental strip indicate good adhesion through cigarette making (80%) and a lower filling power (control 33.2 cc/10 gm, test 31.5 cc/10 gm, both at 12% eq. OV).

4. The first satisfactory trial of CT application to ES (after expansion) showed only 60% CT adhesion through cigarette making and a reduced filling power (control 44 ccs/10 gm; test 41 ccs/10 gm both at 14% eq. OV).

C. Plans

1. Produce coated and sized RL products from Park 500 materials for comparison with pilot plant product.

2. Complete the analysis of RL coated sheet filler properties.

3. Produce coated RL product for evaluation of product handling from hogsheads.

4. Install a dry CT distributor over the RL Foundrinier for process and product evaluation.

5. Run futher trials of CT application to bright and Oriental strip and ES to establish statistically reliable data.

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II. MODIFIED RECON TOBACCO MATERIALS

A. Objective

To improve the physical characteristics of recon tobacco materials and modify its subjective character.

B. Status

1. Using a master batch of feedstock, shredded bright and burley stem products have been made by various processes [ES, IS (B&H), atmospheric and pressurized Bauer refining, and by the Rothmans shredding process]. The stem products are being evaluated for International application.

2. RL hand sheets were prepared to compare a wide range of wood pulp samples subjectively for the selection of a candidate for a Park 500 trial. Abatibi Kraft is preferred to Donitar Kraft and sulphite pulps in pilot plant sheets at 6.8% in the RL blend.

3. Burley transfer RL was preferred subjectively over this sheet with burley solubles returned after treatment by deionization and electrodialysis (27% blend).

C. Plans

1. Complete evaluation of shredded stem processes and products.

2. Obtain direction from the Flavor Development Division for further work to create RL with novel subjective characteristics.

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